

FOREPOLING SYSTEM AKA TUBE UMBRELLA



Forepoling ring bit system and casing tubes are designed to be drilled with top hammer or DTH in an umbrella shape as secondary support in the tunnel roof. Weak ground and overburden must be strengthened by grouting through the casing and grouting valves into the ground.

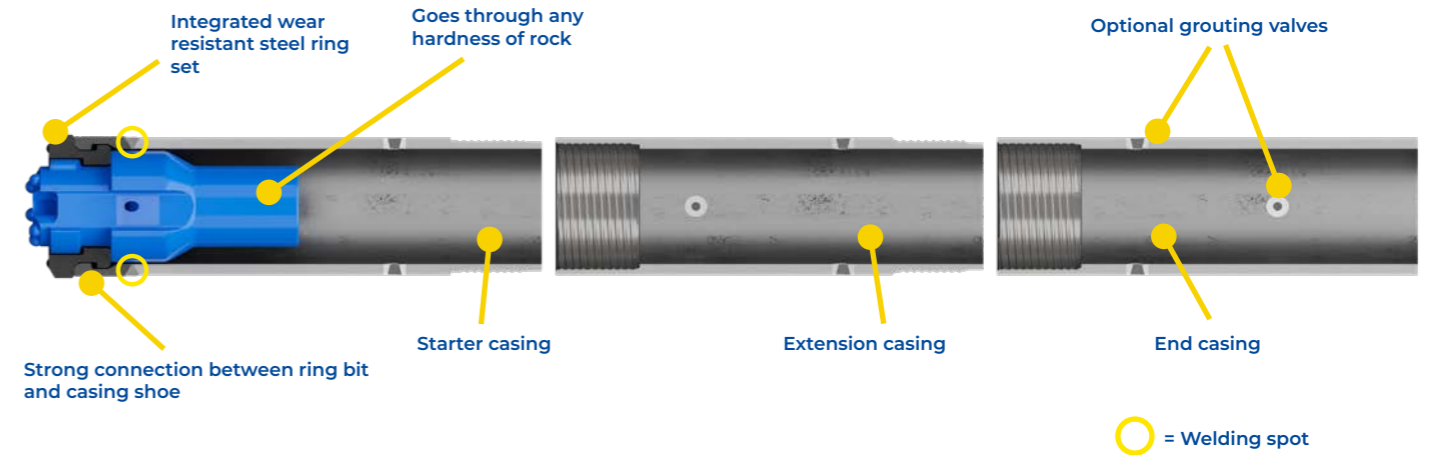


MAIN APPLICATIONS

- Forepoling or tube umbrella
- Anchoring
- Micro-piling
- PVC drainage
- Fibre glass face stabilisation (GFRP system)
- Ground consolidation in front of TBM (GFRP system)



FOREPOLING SYSTEM 76–219 mm



System is available for all major DTH shanks and top hammer threads. Threaded casings normally come with 1 start, but they are also available with 2–3 start trapezoidal threads and 10 mm entrance.

System product code	Casing OD mm	Casing OD inch	Max wall mm	Max wall inch	Ring bit ID mm	Ring bit ID inch	Ring bit OD mm	Ring bit OD inch	Pilot bit OD mm	Pilot bit OD inch	Pilot bit thread
F76-8-40	76.1	3.00"	8	0.31"	40	1.57"	82	3.23"	58	2.28"	R32
F89-8-52	88.9	3.5"	8	0.31"	52	2.05"	94.5	3.72"	70.9	2.79"	T38
F102-8-62	101.6	4.0"	8	0.31"	62	2.44"	106.6	4.20"	83	3.27"	T38
F114-10-70	114.3	4.5"	10	0.39"	70	2.76"	120	4.72"	92	3.62"	T38, T45
F140-10-94	139.7	5.5"	10	0.39"	94	3.70"	148	5.83"	116.7	4.59"	T45
F159-10-116	159	6.26"	10	0.39"	116	4.57"	179	7.05"	133	5.24"	T45, T51
F168-10-127	168.3	6.63"	12.7	0.5"	127	5.00"	189	7.44"	140	5.51"	T45, T51
F219-12.7-171	219.1	8.63"	12.7	0.5"	171	6.73"	243	9.57"	188	7.40"	T45, T51

CASING OPTIONS

Steel casings



GFRP casings



PVC drainage casings



All forepoling systems come with starter, extension and end casings. Mincon offers convenient and flexible customization options to suite all project needs. Several casing options, such as steel, fibre glass and PVC drainage casings as well as accessories are available. See a separate forepoling brochure for more information.